

DERWENT-ACC-NO: 1984-177014

DERWENT-WEEK: 198428

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TITLE: living tissue electrical stimulation
appts. for diagnostic use - has several
electrodes carried by glove with electrical connector at cuff for
connection to power source

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PATENT-ASSIGNEE: BIOSONICS INC[BIOSN]

PRIORITY-DATA: 1982US-0452319 (December 22, 1982)

PATENT-FAMILY:

PUB-NO LANGUAGE	PAGES	PUB-DATE MAIN-IPC	
WO 8402459 A 015	N/A	July 5, 1984	E
AU 8322726 A 000	N/A	June 28, 1984	N/A
BR 8306974 A 000	N/A	July 31, 1984	N/A
CA 1226628 A 000	N/A	September 8, 1987	N/A
DK 8305827 A 000	N/A	August 6, 1984	N/A
EP 114511 A 000	N/A	August 1, 1984	E
NO 8403334 A 000	N/A	November 5, 1984	N/A
PT 77870 A 000	N/A	October 18, 1984	N/A
US 4510939 A 000	N/A	April 16, 1985	N/A
ZA 8309061 A 000	N/A	December 7, 1984	N/A

DESIGNATED-STATES: NO AT BE CH DE FR GB IT LI LU NL SE

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CITED-DOCUMENTS: 1.Jnl.Ref; FR 969374 ; US 3845771 ; US 206474 ; US 3719190

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
	APPL-DATE	
WO 8402459A	N/A	
1983WO-US02018	December 22, 1983	
EP 114511A	N/A	
1983EP-0307865	December 22, 1983	
US 4510939A	N/A	
1982US-0452319	December 22, 1982	

INT-CL (IPC): A41D019/00, A61B005/04 , A61F005/42 ,
A61H039/00 ,
A61N001/04

ABSTRACTED-PUB-NO: US 4510939A

BASIC-ABSTRACT:

The stimulation appts. comprises a rubber glove (12), pref. a surgical glove which has several electrodes (14,18,20,24), electrically connected to respective conductors (28,30,32,34). The electrodes and conductors are connected to the external surface of the glove. Overlying the conductors is an insulating layer to limit contact on the patient to the electrode areas.

The conductors run to a multipin connector (38) on the cuff of the glove. An electronic circuitry provides a stimulating signal and comprises an astable multivibrator. USE/ADVANTAGE - The electrical stimuli may be used to palpate the prostate gland for diagnostic purposes. Also the device may be used to receive low voltage produced by the heart. The device is easy to use and disposable.

ABSTRACTED-PUB-NO: WO 8402459A

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EQUIVALENT-ABSTRACTS:

A glove is of flexible fluid impervious elastomeric material which is sufficiently thin and flexible to afford to the wearer unimpeded feel and manual dexterity so as to enable use of the glove for digital palpation while transferring energy to and from tissue. An electrode fixed to the index finger of the glove covers the area of the glove beneath the tip of the distal phalange of the index finger thus to facilitate application of the electrode directly to a palpated locality of tissue.

A second electrode is disposed adjacent to the tip of the thumb of the glove. An electrical connector is coupled to the glove and is connected to electrical circuitry external to the glove. Flexible electrical conductors are adhesively coupled to the glove and electrically connect the electrodes and the connector.

(6pp)

CHOSEN-DRAWING: Dwg.1/6

TITLE-TERMS: LIVE TISSUE ELECTRIC STIMULATING APPARATUS
DIAGNOSE ELECTRODE
CARRY GLOVE ELECTRIC CONNECT CUFF CONNECT POWER
SOURCE

DERWENT-CLASS: P21 P31 P32 P33 P34 S05

EPI-CODES: S05-A02; S05-A04; S05-D01A;

SECONDARY-ACC-NO:

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